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Drawing

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**Mercury-free metal halide discharge lamp, lighting device for such a lamp, and illuminating apparatus using such a lamp**

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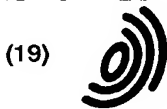
Cited Documents: GB1316803; US5256940; EP0605248; EP0720209; US5463287; US4550272; US5572091; WO9505674; US3761758; US4935668; US5198727; US5140229; JP3141501

**Abstract**

Disclosed is a metal halide discharge lamp which essentially permits disusing mercury. The metal halide discharge lamp comprises a refractory and transparent hermetic vessel (1), a pair of electrodes (2) fixed to the hermetic vessel, and a discharge medium sealed in the hermetic vessel and containing a first halide, a second halide and a rare gas, the first halide being a halide of a metal which achieves a desired light emission, the second halide having a relatively high vapor pressure, being at least one halide of a metal which is unlikely to

emit a visible light compared with the metal of the first halide, and acting as a buffer gas. 

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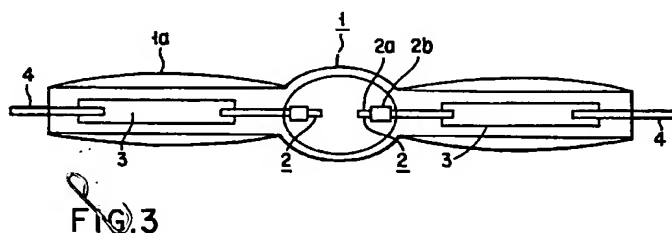
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(54) **Mercury-free metal halide discharge lamp, lighting device for such a lamp, and illuminating apparatus using such a lamp**

(57) Disclosed is a metal halide discharge lamp which essentially permits disusing mercury. The metal halide discharge lamp comprises a refractory and transparent hermetic vessel (1), a pair of electrodes (2) fixed to the hermetic vessel, and a discharge medium sealed in the hermetic vessel and containing a first halide, a second halide and a rare gas, the first halide being a

halide of a metal which achieves a desired light emission, the second halide having a relatively high vapor pressure, being at least one halide of a metal which is unlikely to emit a visible light compared with the metal of the first halide, and acting as a buffer gas.



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